```
                    GenCore version 5.1.6
           Copyright (c) 1993 - 2003  Compugen Ltd.

OM protein - protein search, using sw model

Run on:         May 31, 2003, 17:57:32 ; Search time 15.6444 Seconds
                                          (without alignments)
                                          828.194 Million cell updates/sec

Title:          US-09-772-103-8
Perfect score:  655
Sequence:       1 MDFQVQIFSFLLISASVILS..........CQQWSSYPLTFGGGTKVEIK 128

Scoring table:  BLOSUM62
                Gapop 10.0 , Gapext 0.5

Searched:       383519 seqs, 101223694 residues

To   number of hits satisfying chosen parameters:       383519

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
                 Maximum Match 100%
                 Listing first 45 summaries

Database :       Published_Applications_AA:*
              1:  /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep:*
              2:  /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep:*
              3:  /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep:*
              4:  /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep:*
              5:  /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep:*
              6:  /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep:*
              7:  /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pep:*
              8:  /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*
              9:  /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep:*
             10:  /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep:*
             11:  /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep:*
             12:  /cgn2_6/ptodata/1/pubpaa/US10_PUBCOMB.pep:*
             13:  /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep:*
             14:  /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep:*

     Pred. No. is the number of results predicted by chance to have a
     score greater than or equal to the score of the result being printed,
     and is derived by analysis of the total score distribution.

                                   SUMMARIES
                    %
Result            Query
  No.    Score    Match Length DB ID                              Description
---------------------------------------------------------------------------------
    1      600     91.6    128  9  US-10-160-232-92                Sequence 92, Appl
    2      599     91.5    235 10  US-09-910-059-52                Sequence 52, Appl
    3      593     90.5    235 10  US-09-910-059-99                Sequence 99, Appl
    4      587     89.6    126  9  US-10-160-232-94                Sequence 94, Appl
    5      583     89.0    235 10  US-09-910-059-97                Sequence 97, Appl
    6      573     87.5    126  9  US-10-160-232-96                Sequence 96, Appl
    7      567     86.6    130  9  US-10-195-752-111               Sequence 111, App
    8      564     86.1    130  9  US-10-195-752-113               Sequence 113, App
    9      523     79.8    235 10  US-09-910-059-17                Sequence 17, Appl
   10      520     79.4    126  9  US-10-160-232-93                Sequence 93, Appl
   11      500     76.3    110 10  US-09-753-436-96                Sequence 96, Appl
   12      499     76.2    107 10  US-09-910-059-50                Sequence 50, Appl
   13      496     75.7    107 10  US-09-910-059-61                Sequence 61, Appl
   14      493     75.3    107 10  US-09-910-059-71                Sequence 71, Appl
   15      493     75.3    128  9  US-10-160-232-87                Sequence 87, Appl
   16      490     74.8    126  9  US-10-160-232-89                Sequence 89, Appl
   17      490     74.8    128  9  US-09-967-719C-4                Sequence 4, Appli
   18      490     74.8    128  9  US-09-967-719C-6                Sequence 6, Appli
   19      488     74.5    235  9  US-09-795-515-5                 Sequence 5, Appli
   20      487     74.4    106  9  US-09-771-415-1                 Sequence 1, Appli
   21      487     74.4    106 10  US-09-796-848A-3                Sequence 3, Appli
   22      487     74.4    213  9  US-09-996-288-231               Sequence 231, App
   23      487     74.4    213  9  US-09-996-265-231               Sequence 231, App
   24      485     74.0    106  9  US-09-771-415-17                Sequence 17, Appl
   25      484     73.9    106  9  US-09-996-288-54                Sequence 54, Appl
   26      484     73.9    106  9  US-09-996-265-54                Sequence 54, Appl
   27      484     73.9    213  9  US-09-996-288-211               Sequence 211, App
   28      484     73.9    213  9  US-09-996-265-211               Sequence 211, App
   29      483     73.7    107 10  US-09-910-059-65                Sequence 65, Appl
   30      482     73.6    131 10  US-09-881-823-6                 Sequence 6, Appli
   31      482     73.6    213  9  US-09-996-288-255               Sequence 255, App
   32      482     73.6    213  9  US-09-996-265-255               Sequence 255, App
   33      481     73.4    106  9  US-09-771-415-19                Sequence 19, Appl
   34      481     73.4    106  9  US-09-996-288-13                Sequence 13, Appl
   35      481     73.4    106  9  US-09-996-265-13                Sequence 13, Appl
   36      481     73.4    128  9  US-09-905-928-4                 Sequence 4, Appli
   37      481     73.4    128  9  US-10-096-964-4                 Sequence 4, Appli
   38      481     73.4    129 10  US-09-965-099-99                Sequence 99, Appl
   39      481     73.4    129 12  US-10-051-852-99                Sequence 99, Appl
   40      481     73.4    213  9  US-09-996-288-233               Sequence 233, App
   41      481     73.4    213  9  US-09-996-288-239               Sequence 239, App
   42      481     73.4    213  9  US-09-996-288-247               Sequence 247, App
   43      481     73.4    213  9  US-09-996-265-233               Sequence 233, App
   44      481     73.4    213  9  US-09-996-265-239               Sequence 239, App
   45      481     73.4    213  9  US-09-996-265-247               Sequence 247, App

                                  ALIGNMENTS

RESULT 1
US-10-160-232-92
; Sequence 92, Application US/10160232
; Publication No. US20030088075A1
; GENERAL INFORMATION:
;  APPLICANT: SHITARA, KENYA
;  APPLICANT:  ITO, MIKITO
;  APPLICANT:  HANAI, NOBUO
;  APPLICANT:  KAWADA, YOKO
;  APPLICANT:  NAKAMURA, KAZUYASU
;  APPLICANT:  SHIBUYA, MASABUMI
;  TITLE OF INVENTION: ANTI-HUMAN VEGF RECEPTOR FLT-1 MONOCLONAL ANTIBODY
;  FILE REFERENCE: 249-107
;  CURRENT APPLICATION NUMBER: US/10/160,232
;  CURRENT FILING DATE:  2002-06-04
;  PRIOR APPLICATION NUMBER: US/09/453,718
;  PRIOR FILING DATE: 1999-12-03
;  PRIOR APPLICATION NUMBER: 09/315,051
;  PRIOR FILING DATE: 1999-05-20
;  PRIOR APPLICATION NUMBER: 09/119,014
;  PRIOR FILING DATE: 1998-07-20
;  PRIOR APPLICATION NUMBER: PCT/JP97/04259
;  PRIOR FILING DATE: 1997-11-21
;  NUMBER OF SEQ ID NOS: 96
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 92
;   LENGTH: 128
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Synthetic protein
US-10-160-232-92

  Query Match             91.6%;  Score 600;  DB 9;  Length 128;
  Best Local Similarity   91.4%;  Pred. No. 2.7e-36;
  Matches  117;  Conservative    5;  Mismatches    6;  Indels    0;  Gaps    0;

Qy          1 MDFQVQIFSFLLISASVILSRGDIQMTQSPSSLSASVGDRVTITCSATSSITYMSWYQQK 60
              ||||||||||||||||||:||||||||||||||||||||||||||||:||::|| |||||
Db          1 MDFQVQIFSFLLISASVIISRGDIQMTQSPSSLSASVGDRVTITCSASSSVSYMHWYQQK 60

Qy         61 PGKAPKLLIYDTSNLASGVPSRFSGSGSGTDYTLTISSLQPEDFATYYCQQWSSYPLTFG 120
```

```
                 ||||||||||||| | |||||||||||||||:||||||||||||||||||||||| | |||
Db          61 PGKAPKLLIYDTSKLPSGVPSRFSGSGSGTDFTLTISSLQPEDFATYYCQQWSSNPPTFG 120

Qy         121 GGTKVEIK 128
                |||||||
Db         121 QGTKVEIK 128


RESULT 2
US-09-910-059-52
; Sequence 52, Application US/09910059
; Patent No. US20020142359A1
; GENERAL INFORMATION:
;  APPLICANT: Copley, Clive G
;  APPLICANT:  Edge, Michael Derek
;  APPLICANT:  Emery, Stephen Charles
;  TITLE OF INVENTION: Monoclonal Antibody to CEA, Conjugates Comprising Said Antibody,
;  TITLE OF INVENTION:  Their Therapeutic use in an Adept System
;  FILE REFERENCE: 1991-209
;  URRENT APPLICATION NUMBER: US/09/910,059
;   RRENT FILING DATE:  2001-07-23
;   IOR APPLICATION NUMBER: US 09/171,945
;  PRIOR FILING DATE: 1998-10-29
;  PRIOR APPLICATION NUMBER: PCT/GB97/01165
;  PRIOR FILING DATE: 1997-04-29
;  PRIOR APPLICATION NUMBER: GB 9703103.3
;  PRIOR FILING DATE: 1997-02-14
;  PRIOR APPLICATION NUMBER: GB9609405.7
;  PRIOR FILING DATE: 1996-05-04
;  NUMBER OF SEQ ID NOS: 131
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 52
;   LENGTH: 235
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: complete humanised light chain sequence
US-09-910-059-52

  Query Match             91.5%;  Score 599;  DB 10;  Length 235;
  Best Local Similarity   91.4%;  Pred. No. 5.5e-36;
  Matches  117;  Conservative    5;  Mismatches    6;  Indels    0;  Gaps    0;

Qy           1 MDFQVQIFSFLLISASVILSRGDIQMTQSPSSLSASVGDRVTITCSATSSITYMSWYQQK 60
               ||||||||||||||||||:||||||||||||||||||||||||||||:||:||| |||||
Db           1 MDFQVQIFSFLLISASVIMSRGDIQMTQSPSSLSASVGDRVTITCSASSSVTYMHWYQQK 60

Qy          61 PGKAPKLLIYDTSNLASGVPSRFSGSGSGTDYTLTISSLQPEDFATYYCQQWSSYPLTFG 120
               |||||||||| |||||||||||||||||||||| ||||||||| ||||||| |:||||||
D           61 PGKAPKLLIYSTSNLASGVPSRFSGSGSGTDYTFTISSLQPEDIATYYCQQRSTYPLTFG 120

Qy         121 GGTKVEIK 128
                |||:|||
Db         121 QGTKLEIK 128


RESULT 3
US-09-910-059-99
; Sequence 99, Application US/09910059
; Patent No. US20020142359A1
; GENERAL INFORMATION:
;  APPLICANT: Copley, Clive G
;  APPLICANT:  Edge, Michael Derek
;  APPLICANT:  Emery, Stephen Charles
;  TITLE OF INVENTION: Monoclonal Antibody to CEA, Conjugates Comprising Said Antibody,
;  TITLE OF INVENTION:  Their Therapeutic use in an Adept System
;  FILE REFERENCE: 1991-209
;  CURRENT APPLICATION NUMBER: US/09/910,059
;  CURRENT FILING DATE:  2001-07-23
;  PRIOR APPLICATION NUMBER: US 09/171,945
;  PRIOR FILING DATE: 1998-10-29
;  PRIOR APPLICATION NUMBER: PCT/GB97/01165
;  PRIOR FILING DATE: 1997-04-29
```

```
;  PRIOR APPLICATION NUMBER: GB 9703103.3
;  PRIOR FILING DATE: 1997-02-14
;  PRIOR APPLICATION NUMBER: GB9609405.7
;  PRIOR FILING DATE: 1996-05-04
;  NUMBER OF SEQ ID NOS: 131
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 99
;   LENGTH: 235
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: humanised light chain Fd sequence
US-09-910-059-99

  Query Match             90.5%;  Score 593;  DB 10;  Length 235;
  Best Local Similarity   90.6%;  Pred. No. 1.5e-35;
  Matches  116;  Conservative    5;  Mismatches    7;  Indels    0;  Gaps    0;

Qy           1 MDFQVQIFSFLLISASVILSRGDIQMTQSPSSLSASVGDRVTITCSATSSITYMSWYQQK 60
               ||||||||||||||||||:||||||||||||||||||||||||||||:||:||| |||||
Db           1 MDFQVQIFSFLLISASVIMSRGDIQMTQSPSSLSASVGDRVTITCSASSSVTYMHWYQQK 60

Qy          61 PGKAPKLLIYDTSNLASGVPSRFSGSGSGTDYTLTISSLQPEDFATYYCQQWSSYPLTFG 120
               ||||||| || |||||||||||||||||||||| ||||||||| ||||||| |:||||||
Db          61 PGKAPKLWIYSTSNLASGVPSRFSGSGSGTDYTFTISSLQPEDIATYYCQQRSTYPLTFG 120

Qy         121 GGTKVEIK 128
                |||:|||
Db         121 QGTKLEIK 128


RESULT 4
US-10-160-232-94
; Sequence 94, Application US/10160232
; Publication No. US20030088075A1
; GENERAL INFORMATION:
;  APPLICANT: SHITARA, KENYA
;  APPLICANT:  ITO, MIKITO
;  APPLICANT:  HANAI, NOBUO
;  APPLICANT:  KAWADA, YOKO
;  APPLICANT:  NAKAMURA, KAZUYASU
;  APPLICANT:  SHIBUYA, MASABUMI
;  TITLE OF INVENTION: ANTI-HUMAN VEGF RECEPTOR FLT-1 MONOCLONAL ANTIBODY
;  FILE REFERENCE: 249-107
;  CURRENT APPLICATION NUMBER: US/10/160,232
;  CURRENT FILING DATE:  2002-06-04
;  PRIOR APPLICATION NUMBER: US/09/453,718
;  PRIOR FILING DATE: 1999-12-03
;  PRIOR APPLICATION NUMBER: 09/315,051
;  PRIOR FILING DATE: 1999-05-20
;  PRIOR APPLICATION NUMBER: 09/119,014
;  PRIOR FILING DATE: 1998-07-20
;  PRIOR APPLICATION NUMBER: PCT/JP97/04259
;  PRIOR FILING DATE: 1997-11-21
;  NUMBER OF SEQ ID NOS: 96
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 94
;   LENGTH: 126
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Synthetic protein
US-10-160-232-94

  Query Match             89.6%;  Score 587;  DB 9;  Length 126;
  Best Local Similarity   90.6%;  Pred. No. 2.3e-35;
  Matches  116;  Conservative    5;  Mismatches    5;  Indels    2;  Gaps    1;

Qy           1 MDFQVQIFSFLLISASVILSRGDIQMTQSPSSLSASVGDRVTITCSATSSITYMSWYQQK 60
               ||||||||||||||||||:||||||||||||||||||||||||||||:||::|| |||||
Db           1 MDFQVQIFSFLLISASVIISRGDIQMTQSPSSLSASVGDRVTITCSASSSVSYMHWYQQK 60

Qy          61 PGKAPKLLIYDTSNLASGVPSRFSGSGSGTDYTLTISSLQPEDFATYYCQQWSSYPLTFG 120
```

```
              |||||||||| ||||||||||||||||||||:||||||||||||||||| ||| |  |||
Db         61 PGKAPKLLIYRTSNLASGVPSRFSGSGSGTDFTLTISSLQPEDFATYYCHQWSMY--TFG 118

Qy        121 GGTKVEIK 128
               |||||||
Db        119 QGTKVEIK 126


RESULT 5
US-09-910-059-97
; Sequence 97, Application US/09910059
; Patent No. US20020142359A1
; GENERAL INFORMATION:
;  APPLICANT: Copley, Clive G
;  APPLICANT:  Edge, Michael Derek
;  APPLICANT:  Emery, Stephen Charles
;  TITLE OF INVENTION: Monoclonal Antibody to CEA, Conjugates Comprising Said Antibody,
;  TITLE OF INVENTION:  Their Therapeutic use in an Adept System
;  FILE REFERENCE: 1991-209
; [illegible]RRENT APPLICATION NUMBER: US/09/910,059
; [illegible]RRENT FILING DATE:  2001-07-23
;  PRIOR APPLICATION NUMBER: US 09/171,945
;  PRIOR FILING DATE: 1998-10-29
;  PRIOR APPLICATION NUMBER: PCT/GB97/01165
;  PRIOR FILING DATE: 1997-04-29
;  PRIOR APPLICATION NUMBER: GB 9703103.3
;  PRIOR FILING DATE: 1997-02-14
;  PRIOR APPLICATION NUMBER: GB9609405.7
;  PRIOR FILING DATE: 1996-05-04
;  NUMBER OF SEQ ID NOS: 131
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 97
;   LENGTH: 235
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: humanised light chain Fd sequence
US-09-910-059-97

  Query Match             89.0%;  Score 583;  DB 10;  Length 235;
  Best Local Similarity   89.1%;  Pred. No. 7.6e-35;
  Matches  114;  Conservative    6;  Mismatches    8;  Indels    0;  Gaps    0;

Qy          1 MDFQVQIFSFLLISASVILSRGDIQMTQSPSSLSASVGDRVTITCSATSSITYMSWYQQK 60
              ||||||||||||||||||:||| | :|||||||||||||||||||||:||:||| |||||
Db          1 MDFQVQIFSFLLISASVIMSRGQIVLTQSPSSLSASVGDRVTITCSASSSVTYMHWYQQK 60

Qy         61 PGKAPKLLIYDTSNLASGVPSRFSGSGSGTDYTLTISSLQPEDFATYYCQQWSSYPLTFG 120
              |||||||||| |||||||||||||||||||||| ||||||||| ||||||| |:||||||
Db         61 PGKAPKLLIYSTSNLASGVPSRFSGSGSGTDYTFTISSLQPEDIATYYCQQRSTYPLTFG 120

Qy        121 GGTKVEIK 128
               |||:|||
Db        121 QGTKLEIK 128


RESULT 6
US-10-160-232-96
; Sequence 96, Application US/10160232
; Publication No. US20030088075A1
; GENERAL INFORMATION:
;  APPLICANT: SHITARA, KENYA
;  APPLICANT:  ITO, MIKITO
;  APPLICANT:  HANAI, NOBUO
;  APPLICANT:  KAWADA, YOKO
;  APPLICANT:  NAKAMURA, KAZUYASU
;  APPLICANT:  SHIBUYA, MASABUMI
;  TITLE OF INVENTION: ANTI-HUMAN VEGF RECEPTOR FLT-1 MONOCLONAL ANTIBODY
;  FILE REFERENCE: 249-107
;  CURRENT APPLICATION NUMBER: US/10/160,232
;  CURRENT FILING DATE:  2002-06-04
;  PRIOR APPLICATION NUMBER: US/09/453,718
;  PRIOR FILING DATE: 1999-12-03
;  PRIOR APPLICATION NUMBER: 09/315,051
;  PRIOR FILING DATE: 1999-05-20
;  PRIOR APPLICATION NUMBER: 09/119,014
;  PRIOR FILING DATE: 1998-07-20
;  PRIOR APPLICATION NUMBER: PCT/JP97/04259
;  PRIOR FILING DATE: 1997-11-21
;  NUMBER OF SEQ ID NOS: 96
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 96
;   LENGTH: 126
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Synthetic protein
US-10-160-232-96

  Query Match             87.5%;  Score 573;  DB 9;  Length 126;
  Best Local Similarity   89.1%;  Pred. No. 2.3e-34;
  Matches  114;  Conservative    5;  Mismatches    7;  Indels    2;  Gaps    1;

Qy          1 MDFQVQIFSFLLISASVILSRGDIQMTQSPSSLSASVGDRVTITCSATSSITYMSWYQQK 60
              ||||||||||||||||||:|||||||||||||||||||: |||||||:||::|| |||||
Db          1 MDFQVQIFSFLLISASVIISRGDIQMTQSPSSLSASVGEEVTITCSASSSVSYMHWYQQK 60

Qy         61 PGKAPKLLIYDTSNLASGVPSRFSGSGSGTDYTLTISSLQPEDFATYYCQQWSSYPLTFG 120
              |||||||||| ||||||||||||||||||| |||||||||||||||||| ||| |  |||
Db         61 PGKAPKLLIYRTSNLASGVPSRFSGSGSGTFYTLTISSLQPEDFATYYCHQWSMY--TFG 118

Qy        121 GGTKVEIK 128
               |||||||
Db        119 QGTKVEIK 126


RESULT 7
US-10-195-752-111
; Sequence 111, Application US/10195752
; Publication No. US20030077276A1
;   GENERAL INFORMATION:
;        APPLICANT: NAKAMURA, KAZUYASU
;                   KOIKE, MASAMICHI
;                   SHITARA, KENYA
;                   HANAI, NOBUO
;                   KUWANA, YOSHIHISA
;                   HASEGAWA, MAMORU
;        TITLE OF INVENTION: HUMANIZED ANTIBODIES
;        NUMBER OF SEQUENCES: 113
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: NIXON & VANDERHYE P.C.
;             STREET: 1100 NORTH GLEBE ROAD
;             CITY: ARLINGTON
;             STATE: VIRGINIA
;             COUNTRY: U.S.A.
;             ZIP: 22201-4714
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Floppy disk
;             COMPUTER: IBM PC compatible
;             OPERATING SYSTEM: PC-DOS/MS-DOS
;             SOFTWARE: PatentIn Release #1.0, Version #1.25
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/10/195,752
;             FILING DATE: 16-Jul-2002
;             CLASSIFICATION: <Unknown>
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: US/09/393,385B
;             FILING DATE: 27-JUN-96
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: (703)816-4000
;             TELEFAX: (703)816-4100
;   INFORMATION FOR SEQ ID NO: 111:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 130 amino acids
;             TYPE: amino acid
;             STRANDEDNESS: single
```

```
;            TOPOLOGY: linear
;         MOLECULE TYPE: protein
;         SEQUENCE DESCRIPTION: SEQ ID NO: 111:
US-10-195-752-111

  Query Match             86.6%;  Score 567;  DB 9;  Length 130;
  Best Local Similarity   86.7%;  Pred. No. 6.2e-34;
  Matches  111;  Conservative    7;  Mismatches   10;  Indels    0;  Gaps    0;

Qy          1 MDFQVQIFSFLLISASVILSRGDIQMTQSPSSLSASVGDRVTITCSATSSITYMSWYQQK 60
              | ||||||||||||||||:||||||:|||||||||| ||||||||||:||::|| |:|||
Db          1 MHFQVQIFSFLLISASVIMSRGDIQLTQSPSSLSASPGDRVTITCSASSSVSYMHWFQQK 60

Qy         61 PGKAPKLLIYDTSNLASGVPSRFSGSGSGTDYTLTISSLQPEDFATYYCQQWSSYPLTFG 120
              ||||||| || ||||||||||||||||||| |:|||| ||||| ||||||| |||| |||
Db         61 PGKAPKLWIYSTSNLASGVPSRFSGSGSGTSYSLTISRLQPEDIATYYCQQRSSYPYTFG 120

Qy        121 GGTKVEIK 128
              ||||||||
Db        121 GGTKVEIK 128

RESULT 8
US-10-195-752-113
; Sequence 113, Application US/10195752
; Publication No. US20030077276A1
;  GENERAL INFORMATION:
;       APPLICANT: NAKAMURA, KAZUYASU
;                  KOIKE, MASAMICHI
;                  SHITARA, KENYA
;                  HANAI, NOBUO
;                  KUWANA, YOSHIHISA
;                  HASEGAWA, MAMORU
;       TITLE OF INVENTION: HUMANIZED ANTIBODIES
;       NUMBER OF SEQUENCES: 113
;       CORRESPONDENCE ADDRESS:
;            ADDRESSEE: NIXON & VANDERHYE P.C.
;            STREET: 1100 NORTH GLEBE ROAD
;            CITY: ARLINGTON
;            STATE: VIRGINIA
;            COUNTRY: U.S.A.
;            ZIP: 22201-4714
;       COMPUTER READABLE FORM:
;            MEDIUM TYPE: Floppy disk
;            COMPUTER: IBM PC compatible
;            OPERATING SYSTEM: PC-DOS/MS-DOS
;            SOFTWARE: PatentIn Release #1.0, Version #1.25
;       CURRENT APPLICATION DATA:
;            APPLICATION NUMBER: US/10/195,752
;            FILING DATE: 16-Jul-2002
;            CLASSIFICATION: <Unknown>
;       PRIOR APPLICATION DATA:
;            APPLICATION NUMBER: US/09/393,385B
;            FILING DATE: 27-JUN-96
;       TELECOMMUNICATION INFORMATION:
;            TELEPHONE: (703)816-4000
;            TELEFAX: (703)816-4100
;  INFORMATION FOR SEQ ID NO: 113:
;       SEQUENCE CHARACTERISTICS:
;            LENGTH: 130 amino acids
;            TYPE: amino acid
;            STRANDEDNESS: single
;            TOPOLOGY: linear
;       MOLECULE TYPE: protein
;       SEQUENCE DESCRIPTION: SEQ ID NO: 113:
US-10-195-752-113

  Query Match             86.1%;  Score 564;  DB 9;  Length 130;
  Best Local Similarity   85.9%;  Pred. No. 1e-33;
  Matches  110;  Conservative    8;  Mismatches   10;  Indels    0;  Gaps    0;

Qy          1 MDFQVQIFSFLLISASVILSRGDIQMTQSPSSLSASVGDRVTITCSATSSITYMSWYQQK 60
              | ||||||||||||||||:||||||:|||||||||| ||||||||||:||::|| |:|||
Db          1 MHFQVQIFSFLLISASVIMSRGDIQLTQSPSSLSASPGDRVTITCSASSSVSYMHWFQQK 60

Qy         61 PGKAPKLLIYDTSNLASGVPSRFSGSGSGTDYTLTISSLQPEDFATYYCQQWSSYPLTFG 120
              ||||||| || |||||||||:||||||||| |:|||| ||||| ||||||| |||| |||
Db         61 PGKAPKLWIYSTSNLASGVPARFSGSGSGTSYSLTISRLQPEDIATYYCQQRSSYPYTFG 120

Qy        121 GGTKVEIK 128
              ||||||||
Db        121 GGTKVEIK 128

RESULT 9
US-09-910-059-17
; Sequence 17, Application US/09910059
; Patent No. US20020142359A1
; GENERAL INFORMATION:
;  APPLICANT: Copley, Clive G
;  APPLICANT:  Edge, Michael Derek
;  APPLICANT:  Emery, Stephen Charles
;  TITLE OF INVENTION: Monoclonal Antibody to CEA, Conjugates Comprising Said Antibody,
;  TITLE OF INVENTION:  Their Therapeutic use in an Adept System
;  FILE REFERENCE: 1991-209
;  CURRENT APPLICATION NUMBER: US/09/910,059
;  CURRENT FILING DATE:  2001-07-23
;  PRIOR APPLICATION NUMBER: US 09/171,945
;  PRIOR FILING DATE: 1998-10-29
;  PRIOR APPLICATION NUMBER: PCT/GB97/01165
;  PRIOR FILING DATE: 1997-04-29
;  PRIOR APPLICATION NUMBER: GB 9703103.3
;  PRIOR FILING DATE: 1997-02-14
;  PRIOR APPLICATION NUMBER: GB9609405.7
;  PRIOR FILING DATE: 1996-05-04
;  NUMBER OF SEQ ID NOS: 131
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 17
;   LENGTH: 235
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: chimaeric light chain sequence
US-09-910-059-17

  Query Match             79.8%;  Score 523;  DB 10;  Length 235;
  Best Local Similarity   77.3%;  Pred. No. 1.5e-30;
  Matches   99;  Conservative   17;  Mismatches   12;  Indels    0;  Gaps    0;

Qy          1 MDFQVQIFSFLLISASVILSRGDIQMTQSPSSLSASVGDRVTITCSATSSITYMSWYQQK 60
              ||||||||||||||||||:|||||::||||: :||| |::|||||||:||:||| |:|||
Db          1 MDFQVQIFSFLLISASVIMSRGDIELTQSPAIMSASPGEKVTITCSASSSVTYMHWFQQK 60

Qy         61 PGKAPKLLIYDTSNLASGVPSRFSGSGSGTDYTLTISSLQPEDFATYYCQQWSSYPLTFG 120
              || :||| || |||||||||:||||||||| |:|||| :: || ||||||| |:||||||
Db         61 PGTSPKLWIYSTSNLASGVPARFSGSGSGTSYSLTISRMEAEDAATYYCQQRSTYPLTFG 120

Qy        121 GGTKVEIK 128
               |||:|||
Db        121 AGTKLEIK 128

RESULT 10
US-10-160-232-93
; Sequence 93, Application US/10160232
; Publication No. US20030088075A1
; GENERAL INFORMATION:
;  APPLICANT: SHITARA, KENYA
;  APPLICANT:  ITO, MIKITO
;  APPLICANT:  HANAI, NOBUO
;  APPLICANT:  KAWADA, YOKO
;  APPLICANT:  NAKAMURA, KAZUYASU
;  APPLICANT:  SHIBUYA, MASABUMI
;  TITLE OF INVENTION: ANTI-HUMAN VEGF RECEPTOR FLT-1 MONOCLONAL ANTIBODY
;  FILE REFERENCE: 249-107
;  CURRENT APPLICATION NUMBER: US/10/160,232
```

```
;  CURRENT FILING DATE:  2002-06-04
;  PRIOR APPLICATION NUMBER: US/09/453,718
;  PRIOR FILING DATE: 1999-12-03
;  PRIOR APPLICATION NUMBER: 09/315,051
;  PRIOR FILING DATE: 1999-05-20
;  PRIOR APPLICATION NUMBER: 09/119,014
;  PRIOR FILING DATE: 1998-07-20
;  PRIOR APPLICATION NUMBER: PCT/JP97/04259
;  PRIOR FILING DATE: 1997-11-21
;  NUMBER OF SEQ ID NOS: 96
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 93
;   LENGTH: 126
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Synthetic protein
US-10-160-232-93

     ry Match             79.4%;  Score 520;  DB 9;  Length 126;
      Local Similarity    79.7%;  Pred. No. 1.4e-30;
  Matches  102;  Conservative    9;  Mismatches   15;  Indels    2;  Gaps    1;

Qy          1 MDFQVQIFSFLLISASVILSRGDIQMTQSPSSLSASVGDRVTITCSATSSITYMSWYQQK 60
              |||||||||||||||||||:||||| |||||.||: |:|:| || |||:||::|| |||||
Db          1 MDFQVQIFSFLLISASVIMSRGDIVMTQSPDSLAVSLGERATINCSASSSVSYMHWYQQK 60

Qy         61 PGKAPKLLIYDTSNLASGVPSRFSGSGSGTDYTLTISSLQPEDFATYYCQQWSSYPLTFG 120
              ||: |||||| ||||||||| ||||||||||:|||||||| || | ||| ||| |  |||
Db         61 PGQPPKLLIYRTSNLASGVPDRFSGSGSGTDFTLTISSLQAEDVAVYYCHQWSMY--TFG 118

Qy        121 GGTKVEIK 128
               |||||||
Db        119 QGTKVEIK 126

RESULT 11
US-09-753-436-96
; Sequence 96, Application US/09753436
; Patent No. US20010029293A1
;  GENERAL INFORMATION:
;    APPLICANT:  Gallatin, W. Michael
;    APPLICANT:  Vazeux, Rosemay
;    TITLE OF INVENTION:  ICAM-Related Materials and Methods
;    NUMBER OF SEQUENCES:  120
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Marshall, O'Toole, Gerstein, Murray & Borun
;      STREET:  6300 Sears Tower, 233 South Wacker Drive
;      CITY:  Chicago
;      STATE:  Illinois
;      COUNTRY:  United States of America
;      ZIP:  60606-6402
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/753,436
;      FILING DATE:
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  09/382,289
;      FILING DATE:
;      APPLICATION NUMBER:  US 08/487,113
;      FILING DATE:  07-JUN-1995
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/286,754
;      FILING DATE:  05-AUG-1994
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/102,852
;      FILING DATE:  05-AUG-1993
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/009,266
;      FILING DATE:  22-JAN-1993
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/894,061
;      FILING DATE:  05-JUN-1992
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/889,724
;      FILING DATE:  26-MAY-1992
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/827,689
;      FILING DATE:  27-JAN-1992
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Williams, Joseph A., Jr.
;      REGISTRATION NUMBER:  38,659
;      REFERENCE/DOCKET NUMBER:  33282
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (312) 474-6300
;      TELEFAX:  (312) 474-0448
;      TELEX:  25-3856
;  INFORMATION FOR SEQ ID NO:  96:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  110 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-09-753-436-96

  Query Match             76.3%;  Score 500;  DB 10;  Length 110;
  Best Local Similarity   88.1%;  Pred. No. 3.3e-29;
  Matches   96;  Conservative    7;  Mismatches    6;  Indels    0;  Gaps    0;

Qy         20 SRGDIQMTQSPSSLSASVGDRVTITCSATSSITYMSWYQQKPGKAPKLLIYDTSNLASGV 79
              :| |||||||||||||||||||||||||:||::|: ||||||||||||||| ||||||||
Db          2 ARCDIQMTQSPSSLSASVGDRVTITCSASSSVSYIYWYQQKPGKAPKLLIYLTSNLASGV 61

Qy         80 PSRFSGSGSGTDYTLTISSLQPEDFATYYCQQWSSYPLTFGGGTKVEIK 128
              ||||||||||||:|||||||||||||||||||| | ||||| |||:|||
Db         62 PSRFSGSGSGTDFTLTISSLQPEDFATYYCQQWKSIPLTFGQGTKLEIK 110

RESULT 12
US-09-910-059-50
; Sequence 50, Application US/09910059
; Patent No. US20020142359A1
; GENERAL INFORMATION:
;  APPLICANT: Copley, Clive G
;  APPLICANT:  Edge, Michael Derek
;  APPLICANT:  Emery, Stephen Charles
;  TITLE OF INVENTION: Monoclonal Antibody to CEA, Conjugates Comprising Said Antibody,
;  TITLE OF INVENTION:  Their Therapeutic use in an Adept System
;  FILE REFERENCE: 1991-209
;  CURRENT APPLICATION NUMBER: US/09/910,059
;  CURRENT FILING DATE:  2001-07-23
;  PRIOR APPLICATION NUMBER: US 09/171,945
;  PRIOR FILING DATE: 1998-10-29
;  PRIOR APPLICATION NUMBER: PCT/GB97/01165
;  PRIOR FILING DATE: 1997-04-29
;  PRIOR APPLICATION NUMBER: GB 9703103.3
;  PRIOR FILING DATE: 1997-02-14
;  PRIOR APPLICATION NUMBER: GB9609405.7
;  PRIOR FILING DATE: 1996-05-04
;  NUMBER OF SEQ ID NOS: 131
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 50
;   LENGTH: 107
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: humanized light chain variable region
US-09-910-059-50

  Query Match             76.2%;  Score 499;  DB 10;  Length 107;
  Best Local Similarity   90.6%;  Pred. No. 3.8e-29;
```

```
  Matches   96;  Conservative    4;  Mismatches    6;  Indels    0;  Gaps    0;

Qy          23 DIQMTQSPSSLSASVGDRVTITCSATSSITYMSWYQQKPGKAPKLLIYDTSNLASGVPSR 82
               |||||||||||||||||||||||||:||:||| ||||||||||||||| |||||||||||
Db           1 DIQMTQSPSSLSASVGDRVTITCSASSSVTYMHWYQQKPGKAPKLLIYSTSNLASGVPSR 60

Qy          83 FSGSGSGTDYTLTISSLQPEDFATYYCQQWSSYPLTFGGGTKVEIK 128
               ||||||||||| ||||||||| ||||||| |:|||||| |||:|||
Db          61 FSGSGSGTDYTFTISSLQPEDIATYYCQQRSTYPLTFGQGTKLEIK 106

RESULT 13
US-09-910-059-61
; Sequence 61, Application US/09910059
; Patent No. US20020142359A1
; GENERAL INFORMATION:
;  APPLICANT: Copley, Clive G
;  APPLICANT:  Edge, Michael Derek
;  APPLICANT:  Emery, Stephen Charles
;  TITLE OF INVENTION: Monoclonal Antibody to CEA, Conjugates Comprising Said Antibody,
;  [illegible]TLE OF INVENTION:  Their Therapeutic use in an Adept System
;  [illegible]LE REFERENCE: 1991-209
;  CURRENT APPLICATION NUMBER: US/09/910,059
;  CURRENT FILING DATE:  2001-07-23
;  PRIOR APPLICATION NUMBER: US 09/171,945
;  PRIOR FILING DATE: 1998-10-29
;  PRIOR APPLICATION NUMBER: PCT/GB97/01165
;  PRIOR FILING DATE: 1997-04-29
;  PRIOR APPLICATION NUMBER: GB 9703103.3
;  PRIOR FILING DATE: 1997-02-14
;  PRIOR APPLICATION NUMBER: GB9609405.7
;  PRIOR FILING DATE: 1996-05-04
;  NUMBER OF SEQ ID NOS: 131
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 61
;   LENGTH: 107
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: humanised light chain variable region variant
US-09-910-059-61

  Query Match             75.7%;  Score 496;  DB 10;  Length 107;
  Best Local Similarity   89.6%;  Pred. No. 6.1e-29;
  Matches   95;  Conservative    5;  Mismatches    6;  Indels    0;  Gaps    0;

Qy          23 DIQMTQSPSSLSASVGDRVTITCSATSSITYMSWYQQKPGKAPKLLIYDTSNLASGVPSR 82
               |||:|||||||||||||||||||||:||:||| ||||||||||||||| |||||||||||
D[illegible]           1 DIQLTQSPSSLSASVGDRVTITCSASSSVTYMHWYQQKPGKAPKLLIYSTSNLASGVPSR 60

Qy          83 FSGSGSGTDYTLTISSLQPEDFATYYCQQWSSYPLTFGGGTKVEIK 128
               ||||||||||| ||||||||| ||||||| |:|||||| |||:|||
Db          61 FSGSGSGTDYTFTISSLQPEDIATYYCQQRSTYPLTFGQGTKLEIK 106

RESULT 14
US-09-910-059-71
; Sequence 71, Application US/09910059
; Patent No. US20020142359A1
; GENERAL INFORMATION:
;  APPLICANT: Copley, Clive G
;  APPLICANT:  Edge, Michael Derek
;  APPLICANT:  Emery, Stephen Charles
;  TITLE OF INVENTION: Monoclonal Antibody to CEA, Conjugates Comprising Said Antibody,
;  TITLE OF INVENTION:  Their Therapeutic use in an Adept System
;  FILE REFERENCE: 1991-209
;  CURRENT APPLICATION NUMBER: US/09/910,059
;  CURRENT FILING DATE:  2001-07-23
;  PRIOR APPLICATION NUMBER: US 09/171,945
;  PRIOR FILING DATE: 1998-10-29
;  PRIOR APPLICATION NUMBER: PCT/GB97/01165
;  PRIOR FILING DATE: 1997-04-29
;  PRIOR APPLICATION NUMBER: GB 9703103.3
;  PRIOR FILING DATE: 1997-02-14
;  PRIOR APPLICATION NUMBER: GB9609405.7
;  PRIOR FILING DATE: 1996-05-04
;  NUMBER OF SEQ ID NOS: 131
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 71
;   LENGTH: 107
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: humanised light chain variable region variant
US-09-910-059-71

  Query Match             75.3%;  Score 493;  DB 10;  Length 107;
  Best Local Similarity   89.6%;  Pred. No. 1e-28;
  Matches   95;  Conservative    4;  Mismatches    7;  Indels    0;  Gaps    0;

Qy          23 DIQMTQSPSSLSASVGDRVTITCSATSSITYMSWYQQKPGKAPKLLIYDTSNLASGVPSR 82
               |||||||||||||||||||||||||:||:||| |||||||||||| || |||||||||||
Db           1 DIQMTQSPSSLSASVGDRVTITCSASSSVTYMHWYQQKPGKAPKLWIYSTSNLASGVPSR 60

Qy          83 FSGSGSGTDYTLTISSLQPEDFATYYCQQWSSYPLTFGGGTKVEIK 128
               ||||||||||| ||||||||| ||||||| |:|||||| |||:|||
Db          61 FSGSGSGTDYTFTISSLQPEDIATYYCQQRSTYPLTFGQGTKLEIK 106

RESULT 15
US-10-160-232-87
; Sequence 87, Application US/10160232
; Publication No. US20030088075A1
; GENERAL INFORMATION:
;  APPLICANT: SHITARA, KENYA
;  APPLICANT:  ITO, MIKITO
;  APPLICANT:  HANAI, NOBUO
;  APPLICANT:  KAWADA, YOKO
;  APPLICANT:  NAKAMURA, KAZUYASU
;  APPLICANT:  SHIBUYA, MASABUMI
;  TITLE OF INVENTION: ANTI-HUMAN VEGF RECEPTOR FLT-1 MONOCLONAL ANTIBODY
;  FILE REFERENCE: 249-107
;  CURRENT APPLICATION NUMBER: US/10/160,232
;  CURRENT FILING DATE:  2002-06-04
;  PRIOR APPLICATION NUMBER: US/09/453,718
;  PRIOR FILING DATE: 1999-12-03
;  PRIOR APPLICATION NUMBER: 09/315,051
;  PRIOR FILING DATE: 1999-05-20
;  PRIOR APPLICATION NUMBER: 09/119,014
;  PRIOR FILING DATE: 1998-07-20
;  PRIOR APPLICATION NUMBER: PCT/JP97/04259
;  PRIOR FILING DATE: 1997-11-21
;  NUMBER OF SEQ ID NOS: 96
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 87
;   LENGTH: 128
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Synthetic protein
US-10-160-232-87

  Query Match             75.3%;  Score 493;  DB 9;  Length 128;
  Best Local Similarity   72.7%;  Pred. No. 1.2e-28;
  Matches   93;  Conservative   18;  Mismatches   17;  Indels    0;  Gaps    0;

Qy           1 MDFQVQIFSFLLISASVILSRGDIQMTQSPSSLSASVGDRVTITCSATSSITYMSWYQQK 60
               ||||||||||||||||||:||| : :||||: :||| |::||:||||:||::|| |||||
Db           1 MDFQVQIFSFLLISASVIISRGQLVLTQSPAIMSASQGEKVTMTCSASSSVSYMHWYQQK 60

Qy          61 PGKAPKLLIYDTSNLASGVPSRFSGSGSGTDYTLTISSLQPEDFATYYCQQWSSYPLTFG 120
                | :||  ||||| | ||||:||||||||| |:|||||:: || |||||||||| | |||
Db          61 SGTSPKRWIYDTSKLPSGVPARFSGSGSGTSYSLTISSMEAEDAATYYCQQWSSNPPTFG 120

Qy         121 GGTKVEIK 128
                |||:|:|
```

```
Db        121 AGTKLELK 128

Search completed: May 31, 2003, 18:05:42
Job time : 17.6444 secs
```